

ALEKSANDROV, A.M., inzh.; BAZHENOV, V.S., inzh.; BOBROVNIKOV, B.N., inzh.; VAGANOV, M.P., inzh.; GUREVICH, B.M., inzh.; DZHIBELLI, V.S., inzh.; DROBAKH, V.T., inzh.; ISAKOVICH, R.Ya., kand. tekhn. nauk; KAPUSTIN, A.G., inzh.; KONENKOV, K.S., inzh.; MININ, A.A., kand. tekhn. nauk; PEVZNER, V.B., inzh.; PESKIN, G.L., inzh.; PORTER, L.G., inzh.; PRYADILOV, A.N., inzh.; SLUTSKIY, L.B., inzh.; FEDOSOV, I.V., inzh.; FRENKEL', B.A., inzh.; TSIMBLER, Yu.A., inzh.; SHUL'GIN, V.Kh., inzh.; ESKIN, M.G., kand. tekhn. nauk; VOROB'YEV, D.T., inzh. [deceased]; SINEL'NIKOV, A.V., kand. tekhn. nauk; SHENDLER, Yu.I., kand. tekhn. nauk, red.; NESMELOV, S.V., inzh., zam. glav. red.; NOVIKOVA, M.M., ved. red.; RASTOVA, G.V., ved. red.; SOLGANIK, G.Ya., ved. red.; VORONOVA, V.V., tekhn. red.

[Automation and apparatus for controlling and regulating production processes in the petroleum and petroleum chemical industries] Avtomatizatsiya, pribory kontrolya i regulirovaniya proizvodstvennykh protsessov v nef'tianoi i nef'tekhimicheskoi promyshlennosti. Moskva, Gostoptekhzdat. Book 3 [Control and automation of the processes of well drilling, recovery, transportation, and storage of oil and gas] Kontrol' i avtomatizatsiya protsessov bureniya skvazhin, dobychi, transporta i khraneniya nef'ti i gaza. 1963. 551 p. (Automation) (MIRA 16:7)

(Petroleum and petroleum chemical industries and supplies)

BONDARCHUK, A.P.; KODNITSKIY, I.I.; KULISHER, M.A.; PEVZNER, V.B.,
red.; GOR'KVA, A.A., ved. red.; BASHMAKOV, G.M., tekhn.
red.

[Automatic control on tank farms and of petroleum product
pipelines] Kontrol' i avtomatizatsiia neftebaz i magistral'-
nykh nefteproduktoprovodov. Moskva, Gos. nauchno-tekhn.
izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 193 p.

(MIRA 15:3)

(Petroleum—Storage) (Petroleum—Pipelines)
(Automatic control)

PEVZNER, V.D.

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1. Vvedeniye
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PYATNITSKIY, S.S.; KOVALENKO, M.P.; LOKHMATOV, N.A.; TURKEVICH,
I.V.; STUPNIKOV, V.G.; SUSHCHENKO, V.P.; CHONI, G.P.;
KRYLOVA, V.I., red.; PEVZNER, V.I., tekhn.red.; DEYEVA,
V.M., tekhn. red.

[Vegetatively propagated forests] Vegetativnyi les. [By
S.S.Piatnitskii i dr. Moskva, Sel'khozizdat, 1963. 447 p.
(MIRA 17:2)

101 AND 2ND CODES

PEVNER, V I

PROCESSES AND PROPERTIES INDEX

The role of electrical forces in the phenomenon of the unilateral permeability of the skin. D. I. Mutanshtein and V. I. Pevner. *J. Physiol. (U. S. S. R.)* 22, 473-82 (1963) (1963); cf. C. A. 51, 7451i. The unilateral permeability (I) of frog skin to methylene blue, thionine and toluidine blue disappears after fixation by KOH or formalin. It is preserved in the case of temporary removal of the skin elec. potentials in isotonic KCl soln. Irreversible removal of skin potentials when the skin is injured by prolonged contact with disod. H₂O or pure KCl also does not destroy I. A theory is advanced explaining I as due to a chem. transformation of the permeating substance on the opposed surfaces of the tissue membrane (undissoc. dye-colored ion, oxidized non-leuco form, hexose-hexosephosphate, etc.). It is suggested that the substances actually diffuse through opposite sides of the membrane but with unequal rates of penetration.

S. A. Kartala

101 AND 2ND CODES

PEVNER, V I

PROCESSES AND PROPERTIES INDEX

The role of electrical forces in the phenomenon of the unilateral permeability of the skin. D. I. Mutanshtein and V. I. Pevner. *J. Physiol. (U. S. S. R.)* 22, 473-82 (1963) (1963); cf. C. A. 51, 7451i. The unilateral permeability (I) of frog skin to methylene blue, thionine and toluidine blue disappears after fixation by KOH or formalin. It is preserved in the case of temporary removal of the skin elec. potentials in isotonic KCl soln. Irreversible removal of skin potentials when the skin is injured by prolonged contact with disod. H₂O or pure KCl also does not destroy I. A theory is advanced explaining I as due to a chem. transformation of the permeating substance on the opposed surfaces of the tissue membrane (undissoc. dye-colored ion, oxidized non-leuco form, hexose-hexosephosphate, etc.). It is suggested that the substances actually diffuse through opposite sides of the membrane but with unequal rates of penetration.

S. A. Kartala

101 AND 2ND CODES

PEVNER, V I

PROCESSES AND PROPERTIES INDEX

PEVZNER, V.I.

Effect of vitamin P on the permeability of vessels of the anterior chamber of the eye in rabbits; preliminary report. Biol. eksp. biol. i med. 48 no.10:46-48 O '59. (MIRA 13:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta vitamino-logii (dir. - deystvitel'nyy chlen AMN SSSR B.A. Lavrov) Ministerstva zdravookhraneniya SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR V.N. Chernigovskiy.
(EYE blood supply)
(VITAMIN P pharmacol.)

EXCERPTA MEDICA Sec.12 Vol.10/12 Ophthalmology Dec 56

1805. PEVSNER V.I. Inst. of Eye Dis., Moscow. *The conditioned reflex change of intraocular pressure in a dog (Russian text)
PROBL. FIZIOL. OPT. (Moscow) 1955, 11 (19-24)
In preliminary experiments on 4 dogs it was demonstrated that an application of a direct current to the neck (5 ma. for 10 min.) induced a rise of the intraocular pressure. In a subsequent combination of the current application with the sound of a metronome it was possible to elaborate in the dog a conditioned reflex on the sound of the metronome. Later on the switching on of the metronome without the application of the current induced a rise of the intra-ocular pressure.
Tron - Leningrad (XII, 2)

PEVSNER, V. I.

6633. Conditioned reflex change of the intraocular pressure in the dog. V. I. Pevsner *Probl. Fiziol. Op.*, 1965, 11: 19-24; *Refetal. Zh. Biol.*, 1958, Abstr. No. 83305. Intraocular pressure was measured in 4 dogs by the Maklakov tonometer. Fixation in the stand and application of the electrodes caused a rise of intraocular pressure in the dogs. Under the influence of a direct electric current of 5 ma. (anode on occiput, cathode on the shin) there was a more appreciable temporary (up to 15 min.) rise of intra-ocular pressure than on application of the electrodes. The action of a current in the reverse direction was equivocal. After 4-5 experiments in which the application of the electric current coincided with the action of a metronome (M₁) a rise of intra-ocular pressure was observed to the metronome alone. The conditioned reflex reaction to M₁ was much more prolonged (up to 75 min.) than to the current. On applying M₁ alone daily without reinforcement the response was extinguished by the 5th day. (Russian)

T. R. PARSONS

PEVZNER, V.I.

Effect of vitamin P on vascular permeability in the anterior segment
of the rabbit eye. Vit. res. i ikh. isp. no.4:98-107 '59.

(MIRA 14:12)
1. Institut vitaminologii Ministerstva zdavookhraneniya SSSR, Moskva.
(VITAMINS--P) (CAPILLARIES--PERMEABILITY)

PEVZNER, V.O., inzh.

Debatable principles. Put' 1 put. khoz. 2 no.2:22 1968 MIA 12.7

PEVZNER, V.O., inzh.

He struggles for progress. Put' i put.khoz. 7 no.1:32-33 '63.
(MIRA 16:3)

1. Moskovsko-Savelovskaya distant'siya puti.
(Railroad bridges—Maintenance and repair)

KOL'TSOVA, T.T.; LI, P.F.; PEVZNER, V.S.

Age of the Taborinka series and Yukonskaya formation in the Makhnovo
region of the eastern slope of the Central Ural Mountains. Inform.
abor.VSEGEI no.53:49-57 '62. (MIRA 17:1)

PEVZNER, V.S., inzhener.

A valuable contribution to the science of binding materials
("Quicklime as a new binding agent." B.V. Osin. Reviewed by V.
S. Pevzner). Gor.khoz. Mosk. 29 no.12:36-37 D '55. (MLBA 9:3)
(Binding materials) (Osin, B.V.)

PEVZNER, V.S., inzh.

Building technology of the capital in 1959. Gor.khoz.Mosk. 33
no.9:5-10 S '59. (MIRA 12:11)
(Moscow--Precast concrete construction)

PEVZNER, V.S., inzh.

Ways to lower the work required for finishing operations in
construction. Gor. khoz. Mosk. 36 no.9:12-15 S '62 (MIRA 15:10)
(Apartment houses) (Building—Details)

PEVZNER, V. Sh., inzh.

Determining the order of putting parts into production. Vest.
mashinostr. 44 no. 11372-77 N '64 .MIRA 18:2)

PEVZNER, V.Sh., inzh.

Using electronic computers in designing machine-tool plants.
Mekh. i avtom. proizvod. 18 no.7:39-41 J1 '64. (MIRA 17:9)

PEVZNER, V.Sh., inzh.

Economic substantiation of dimensional series for pinion billets.
Vest.mashinostr. 43 no.1:82-90 Ja '63. (MIRA 16:2)
(Industrial management)

PEVZNER, V.S., inzh.

"Introducing industrial methods into the housing construction of
Moscow" by V.F.Promyslov. Reviewed by V.S.Pevzner. Gor.khoz.Mosk.
34 no.6:40-3 of cover Je '60. (MIRA 13:7)
(Moscow--Construction industry)

PERINER, J. L. (Lazlo, CARL OY, S.O., and)

Construction workers of the USSR strive for technological
progress. (See photo) Mosk. 15. 11. 1985. 01.
(MIRA 14.12)

(Moscow Building Exhibitions)

PEVNER, V.S., inzhener.

Creative initiative of Mariia Panina, concrete reinforcement
worker. Gor.khoz.Mosk. 28 no.12:30-33 D '54. (MLRA 8:3)
(Panina, Mariia Ivanovna)(Reinforced concrete)

PRYZNER, V.S., inzhener.

New modern products for mass production of buildings. Ser.khoz.
Mosk.31 no.1:14617 Ja '57. (MIRA 10:3)
(Precast concrete)

PEVZNER, V. S. and MAZUR, M. F.

"The achievements in the construction engineering to be applied to the mass construction," The Municipal Economy of Moscow, 1951.

PEVZNER, V.S., inzh.

Industrialization of finishing work in construction in Czechoslovakia.
Gor. khoz. Mosk. 36 no.5:45-47 May '62. (MIRA 15 -
(Czechoslovakia--Decoration and ornament, Architectural)

LI, P.F.; RAVDONIKAS, O.V.; PEVZNER, V.S.; RUSAKOVA, L.Ya., red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Geology, and oil and gas potentials of the Ust'-Irtysk trough in
the West Siberian Plain] Geologicheskoe stroenie i perspektivy
neftegazonosnosti. Leningrad, 1960. 230 p. (Leningrad. Vsesoiuznyi
geologicheskii institut. Trudy, vol.33). (MIRA 13:11)

(West Siberian Plain--Petroleum geology)
(West Siberian Plain--Gas, Natural--Geology)

PEVZNER, V.S., inzh.

Thirteenth Moscow exhibition of new building techniques. Gor. khoz.
Mosk. 34 no.11:15-16 N '60. (MIRA 13:11)
(Moscow--Building--Exhibitions)

171-2-11-10-55
BERNEY, Ivan Ivanovich, kand. tekhn. nauk; SOKOLOV, P.N., prof., nauchnyy red.;
SHPANOV, N.V., inzh., nauchnyy red.; PEVZNER, V.S., red.; GILNENSON,
P.G., tekhn. red.

[Manufacturing asbestos cement sheets; theory and design] Formova-
nie asbestotsementnykh listov; teoriia i raschet. Moskva, Gos.
izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1958. 278 p.
(Asbestos cement) (MIRA 11:5)

PEVZNER, V.S., inzh.

For a wide-range exchange of building experience in the capital. Ser.
khoz.Mosk. 31 no.5:39-40 My '57. (MIRA 12:3)
(Building--Periodicals)

PEVNER, V.S., inzhener.

Problems of lime used in building in the light of an outstanding
scientific discovery. Gor.khoz.Mosk. 24 no.5:18-27 My '50. (MLRA 7:11)
(Lime) (Building materials)

PEVZNER, V.S., inzh.

Conference on the economics of water-supply and sewer systems.
Gor. khoz. Mosk 34 no.8:27 Ag '60. (MIRA 13:9)
(Water-supply engineering) (Sewage)

PEVNER, V.S., inzhener.

"Safety measures in transporting and placing concrete." N.S.Godziev.
Reviewed by V.S.Pevner. Gor.khoz.Mosk. 28 no.10:40 0 '54. (MLA 7:11)
(Concrete construction--Safety measures) (Godziev, N.S.)

PEVZNER, V.S., inzhener.

New construction technology at the 1954 exhibition. Gor.khoz.Mosk.
28 no.9:16-21 S '54.

(MIRA 7:10)

(Moscow--Construction industry--Exhibitions) (Construction
industry--Exhibitions--Moscow)

PEVZNER, V.S., inzhener.

Flat roofs with a bitumen and concrete waterproofing. Gor.khoz. Mosk. 27
no.6:13-17 Je '53.

(MLBA 6:6)

(Moscow--Roofs)

PLOTNIKOV, N.P., inzhener; PEVZNER, V.S., inzhener.

Machinery for the complete mechanisation of the construction industry. Gor.
khoz.Mosk. 27 no.11:12-18 N '53. (MLRA 6:11)

(Building machinery)

LEVNER, V.D., AKA: AKA: AKA:

Moscow - Construction Industry

Accomplishment of the Moscow Building Industry in 1951-1952. Ger. Khz. Arkh. 24, no. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December ¹⁹⁵² ~~1951~~, Uncl.

MATHE, M. P., PEVNER, V. G.

Apartment Houses

Mass production methods in the construction of dwellings. Serial. No. 1, 1961.

Monthly List of Russian Accessions, Library of Congress, April 1961.

PEVZNER, V.S., inzh.

Exhibition of the 1958 building technology in Moscow. Gor. khoz. Mosk.
32 no.9:12-15 S '58. (MIRA 11:9)
(Moscow--Building--Exhibitions)

PEVZNER, V.S., inzhener

For practicality in propagating new techniques ("New techniques
on Moscow construction projects." Reviewed by V.S.Pevzner).
Gor.khoz.Mosk. 29 no.6:37-38 Je '55. (MLRA 8:8)
(Moscow--Building)

PEVZNER, V.S., inzhener

A useful manual on landscaping open areas near residential buildings
("Landscaping around apartment houses." T.N.Turchinskaya. Reviewed
by V.S.Pevzner). Gor.khoz.Mosk.29 no.9:39 S'55. (MLRA 8:12)
(Landscape gardening) (Turchinskaya, T.N.)

L 7957-66 ENT(1)/EWA(h)

ACC NR: AP5025739

SOURCE CODE: UR/0286/65/000/018/0089/0089

AUTHORS: Mebel', D. M.; Povander, V. V.; Shapiro, Yu. M.

ORG: none

TITLE: Phase sensitive voltage converter. Class 42, No. 174836

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 89

TOPIC TAGS: transistorized circuit, voltage regulator 25

ABSTRACT: This Author Certificate presents a phase sensitive voltage converter. An alternating voltage supplied to the input produces both a constant and a rectangular voltage of the same frequency at the output with filtering of the reactive unbalance. The sum of a constant and alternating voltage produces a rectangular voltage at the output free of the reactive component. To simplify the device, the transistor emitters of two semiconductor switches are connected through filtering capacitors to the load and to the signal source. The collectors are connected to the second terminals of the source and load. A reference voltage of opposite phase is supplied to the transistor bases.

SUB CODE: EC/ SUBM DATE: 17Jul63

Card 1/1 OC

UDC: 621.314.5

LEYSHMAN, M.B.; BALASHOV, M.Ye.; AFANAS'YEV, A.S.; MIKHELEV, V.M.;
TAKHVANOV, G.I.; SHKHALAKHOV, Yu.Sh.; SANNIKOV, Yu.I.; SLAVIN, A.A.;
BEYRAKH, Z.Ya.; KAPLINSKIY, B.I.; ORLOV, C.A.; PEVZNER, V.I.;
VALOV, O.V.; KIREYEV, V.V.

Inventions. Avtom. i prib. no. 3:76-77 J1-S '64.

(MIRA 18:7)

PEVZNER, V.V., inzh.

Transistorized d.c. converter in the ER-T-59 regulator. Energetik
10 no.2:20-21 F '62. (MIRA 15:2)
(Electric current converters) (Temperature regulators)

PEVZNER, V.V., inzh.

A transistorized d.c. voltage regulator in the ER-T-59
electronic controller. Energetik 10 no.6:20-22 Je '62.
(MIRA 16:3)

(Voltage regulators)

(Temperature regulators)

L 08960-67

ACC NR: AP6019777

SOURCE CODE: UR/0119/66/000/006/0001/0004

AUTHOR: Pavlenko, V. A. (Engineer); Pevzner, V. V. (Engineer) /7

ORG: none

TITLE: Controlled-oscillator-type d-c amplifier

SOURCE: Priborostroyeniye, no. 6, 1966, 1-4

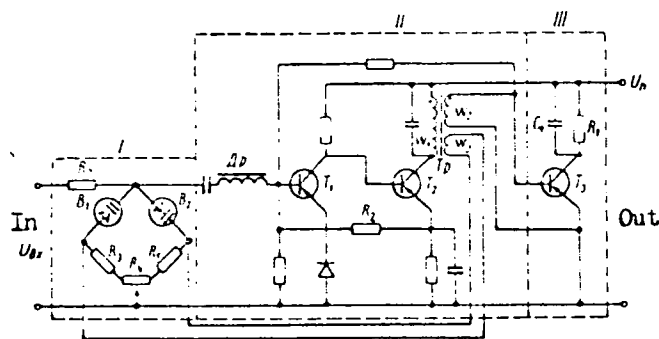
TOPIC TAGS: dc amplifier, *electronic amplifier*
~~controlled-oscillator-type-dc-amplifier~~

ABSTRACT: Design and operation of a (high-resistance-input) controlled-oscillator-type d-c amplifier (see figure) are considered. Three parts are discernible in such an amplifier: I - a signal transducer comprising two varicaps and four resistors; by adjusting R_y the system is brought to the threshold of self-oscillations, after which the input signal controls (positive feedback) the transfer ratio of the transducer and along with it the oscillation amplitude; II - an a-c

Card 1/2

UDC: 621.375.024

L 08960-67
ACC NR: AP6019777



amplifier having a common d-c feedback; III - a rectifying unit having a ripple-smoothing capacitor C_1 and feeding into load R_5 . A theory of operation of the above d-c amplifier is presented with formulas for the overall gain, transducer transfer ratio, a-c amplifier transconductance, transformer parameters, and rectifying unit input parameters. It is claimed

that the above formulas agree with corresponding experimental data within 15–20%. Orig. art. has: 4 figures, 22 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: none

Card 2/2 nst

PEVZNER, V.Z., redaktor; GURVICH, M.A., redaktor; LYUDKOVSKAYA, N.I.,
tekhnicheskiy redaktor

[Let us realize the industrial resources of prefabricated reinforced concrete; the work practice of the No.1 Factory for Industrial Construction Parts of the Moscow City Executive Committee] Priveden v delstvie rezervy proizvodstva sbornogo zhelezobetona; iz opyta raboty zavoda no.1 Upravleniya promyshlennosti stroitel'nykh detalei Mosgorispolkoma. Moskva, Gos.izd-vo lit-ry po stroitel'nym materialam, 1955. 58 p. (MIRA 9:3)
(Reinforced concrete)

PEVZNER, Ya.

Ideological unity of the Marxian scholars of socialist
and capitalist countries. Vop. ekon. no.11:92-104 N 103.
(MIRA 17:2)

POTAPOV, I.S.; FINOGENOV, V.P.; SOLODKIN, R.G.; KAPELINSKIY, Yu.N.;
MENZHINSKIY, Ye.A.; SEROVA, L.V.; POKROVSKIY, A.N.;
PEVZNER, Ye.A.; LEBEDEV, B.I.; VLADIMIRSKIY, L.K.;
MATYUKHIN, I.S.; ROGOV, V.V.; PISKOPPEL', F.G., doktor ekon.
nauk, prof., red.; SHLENSKAYA, V.A., red.izd-va; ZINCHENKO,
V.S., red.izd-va; PAVLOVSKIY, A.A., tekhn. red.

[Foreign trade of capitalist countries] Vneshniaia torgovlia
kapitalisticheskikh stran. [By] I.S.Potapov i dr. Moskva,
Vneshtorgizdat, 1963. 456 p. (MIRA 16:9)
(Commerce)

RAMZES, V.B. [translator]; RUSETSKIY, S.B. [translator]; PEVZNER, Ya.A.,
red.; SHAGALOV, G.L., red.; DZHATIYEVA, F., tekhn. red.

[Monopolistic capital of modern Japan. Translated from the Japanese]
Monopolisticheskii kapital sovremennoi Iaponii. Moskva, Izd-vo ino-
str. lit-ry, 1961. 322 p. (MIRA 14:7)
(Japan--Capital) (Japan--Trusts, Industrial)

PRYZNER, Ya. A.; ZHELEZNOVA, L.M., redaktor; KIRSANOVA, N.A., tekhnicheskii redaktor;

[The condition and the struggle of the working classes in present-day Japan] Polozhenie i bor'ba trudiaschichsya klassov v sovremennoi Iaponii. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 101 p.

(MLRA 10:4)

(Japan--labor and laboring classes)

PEVZNER, Ya.D.

[Organizing the repair of machinery in agriculture]Organi-
zatsiia remonta mashin v sel'skom khoziaistve. 2., perer.
1 dop. izd Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 328 p.
(MLA 15:8)
(Agricultural machinery--Maintenance and repair)

PEVZNER, Ya D.

Organizatsiya Remonta mashin v MTS i Sovkhozakh (Organization of Machine repair in machine tractor stations and state farms) Moskva, Sel'khozgiz, 1954.

221 p. diagrs., tables.

SO: N/5

741.01

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PEVZNER, Yakov Davidovich; CHAPSKIY, O.U., red.

[Organizing the repair of agricultural machinery] Organizatsiia remonta mashin v sels'kom khoziaistve. Izd.3., perer. i dop. Moskva, Kolos, 1964. 359 p.

(MIRA 17:12)

FIGULEVSKAYA, Yevgeniya Aleksandrovna; PEVNER, Ya.A., kand.ekonom.nauk,
otv.red.; ZIMENKOV, G.I., red.izd-va; KISILEVA, A.A., tekhn.red.

[Renewal of capital assets in Japanese industry and the develop-
ment of the postwar cycle] Obnovlenie osnovnogo kapitala iapon-
skoi promyshlennosti i razvitie poslevoennogo tsikla. Moskva,
Izd-vo Akad.nauk SSSR, 1960. 255 p. (MIRA 13:5)
(Japan--Finance)

PEVZNER, Yakov Khatskelevich

[State monopolistic capitalism in Japan after the Second World War] Gosudarstvenno-monopolisticheskii kapitalizm v Iaponii posle Vtoroi Mirovoi voyny. Moskva, Izd-vo Akad. nauk SSSR. 1961. 423 p.
(MIRA 14:10)

(Japan--Economic conditions) (Japan--Trusts, Industrial)

12(0)

30V/117-52-5-6/11

AUTHOR: Pevzner, Ya.M., Doctor of Technical Sciences

TITLE: On the Theory of Automobile Oscillations on an Uneven Road (E teorii kolebaniy avtomobilov na nerovnoy dorozhe)

PERIODICAL: 'Avtomobil'naya promyshlennost', 1956, No. 1, pp 13 - 18 (USSR)

ABSTRACT: For selecting the most suitable suspension parameters it is necessary to have a sufficiently developed theory of automobile oscillations. The lack of such a theory leads to time consuming experiments for finding the most suitable suspension. However the development of a theory of automobile oscillations presents great difficulties. The author considers various aspects of this theory pointing out that the question of selecting the ratio of static load of the front and rear suspensions remains theoretically unsolved for the time being. Then he considers another problem, connected with the mode of comfort-

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SCV/113-52-1-5/17

On the Theory of Automobile Oscillations on an Uneven Road

able riding, which is located near the center of the car. He points out that the investigation of an oscillatory process on an automobile may be divided into two problems: 1) the determination of some average values (displacement, acceleration) which characterize the oscillations of the front and rear suspensions; 2) the determination of such characterizing magnitudes for other points of the body in dependence on their location along the length of the wheel base, and magnitudes for angular displacements and accelerations of the body, when those magnitudes are known which characterize the oscillations of the front and rear suspensions. This second problem was the subject of the author's investigations. He determines the oscillation of a point X located at the distance x from the front axle, as shown by Figure 1. In his conclusions the author states that the rear suspension should have a low oscillation frequency, but this does not mean that it should be lower than the oscillation frequency of the front wheels, since

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On the Theory of Automobile Oscillations on an Uneven Road SCV/113-5427-1/1

an increased difference of the oscillation frequencies of the front and rear suspensions eliminated the "zone of comfort" near the center of the car, which should be avoided, especially when designing buses. There are 1 diagram and 6 graphs.

ASSOCIATION: NAMI

Card 3/3

LEVNER, Ya. M.

"Theory of Automobile Stability." Thesis for Dr. Technical Sci. Sub 2 May 49,
Scientific Automobile Inst.

Summary 2, 18 Dec 49, Dissertations Presented for Degrees in Science and Engineering
in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

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GORELIK, A.M., inzhener; OSIPIYAN, A.V., kandidat tekhnicheskikh nauk; otvetstvennyy redaktor; ZIL'BERBERG, Ya.G., inzhener; ERILING, N.R., doktor tekhnicheskikh nauk, professor; KALISH, G.G., doktor tekhnicheskikh nauk, professor; MEZIN, I.S., doktor tekhnicheskikh nauk; PEVZNER, Ya.M., doktor tekhnicheskikh nauk; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor; BRYZGOV, N.N., kandidat tekhnicheskikh nauk; KOZLOVSKIY, I.S.; kandidat tekhnicheskikh nauk; LYTKIN, I.I., kandidat tekhnicheskikh nauk; RAMAYYA, K.S., kandidat tekhnicheskikh nauk; BUTYLKIN, A.G., tekhnicheskiiy redaktor; MATVEYEVA, Ye.N.; tekhnicheskiiy redaktor.

The effect of vertical forces on automobile wheels. Trudy NAMI no.65:1
'52. (MIRA 8:11)

1. Direktor NAMI (for Osipyan)
(Automobiles--Wheels)

1. GORELIK, A. M.; PEVNER, Ya. M.
2. USSR (600)
4. Stability
7. Testing the automobile for steadiness and careening. Avt. trakt. prom. N. 4., 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

MINKIN, M. L., kandidat tekhnicheskikh nauk; TRAKTOVENKO, I. A., kandidat tekhnicheskikh nauk; OSIPIAN, A. V., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; ~~ZIL'BERBERG~~ YERG, Ya. G., inzhener, sekretar' BRILING, N. R., doktor tekhnicheskikh nauk, KALISH, G. G., professor, doktor tekhnicheskikh nauk; PEVZNER, Ya. M., doktor tekhnicheskikh nauk; RAMAYYA, K. S., doktor tekhnicheskikh nauk; KHRUSHCHEV, M. M., professor, doktor tekhnicheskikh nauk; KOZLOVSKIY, I. S., kandidat tekhnicheskikh nauk; MATVEYEVA, Ye. N., tekhnicheskiiy redaktor.

[An investigation of Soviet automobile radiators] Issledovanie otechestvennykh avtomobil'nykh radiatorov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 43 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut [Trudy], no. 74) (MLRA 8:9)
(Automobiles--Radiators)

PEVZNER, YA. M.

USSR/Engineering - Automobile tires

Card 1/1 : Pub. 12 - 4/14

Authors : Pevzner, YA. M.

Title : The operation of an automobile tire during lateral oscillations

Periodical : Avt. trakt. prom. 5, 13-19, May 1954

Abstract : The damage and wear of automobile tires, due to lateral oscillations, were investigated. Attempts were made to determine the rotation path of automobile wheels during lateral oscillations, and the ratio of tire wear in dependency of its rotation speed and the rate of surface contact. Two references (1945 and 1950). Graphs; diagrams; drawings.

Institution :

Submitted :

PEVZNER, A. I.

LAPIDUS, V.I., kandidat tekhnicheskikh nauk; OSIPIYAN, A.V., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; ZIL'EERBERG, Ya.G., inzhener, sekretar'; BRILING, N.R., doktor tekhnicheskikh nauk, professor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor; KALISH, G.G., doktor tekhnicheskikh nauk, professor; RAMAYYA, I.S., doktor tekhnicheskikh nauk; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk; UVAROVA, A.F., tekhnicheskiy redaktor.

Experimental research on fluid flow in hydraulic torque converters.
[Trudy] NAMI no.73:1-22 '54. (MLRA 8:2)

1. Direktor Nauchnogo avtomotornogo instituta (for Osipyan).
(Oil hydraulic machinery)(Automobiles--Transmission devices)

PEVZNER, Ya.M.
KULIKOV, N.E., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISE, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor.

Weged freewheeling clutches. Trudy NAMI no.75:3-67 '54.
(MIRA 8:7)

1. Konstruktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Lipgart)
(Clutches (Machinery))

KULIKOV, N.K., doktor tekhnicheskikh nauk; OSIPIYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, professor, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVOMOV, S.B., inzhener, redaktor; YEGORKINA, L.I., redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor; BROKSH, V.V., inzhener.

[Performance of automobile wheels] Rabota avtomobil'nogo koleasa. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotorny institut. [Trudy] no.77) 1955 36 p. (MLRA 9:4)

1.Chlen-korrespondent AN SSSR (for Briling).
(Automobiles--Wheels)

RUDNITSKIY, N.M., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener; BROKSH, V.V., inzhener, redaktor; BAUMAN, I.M., redaktor; UVAROVA, A.F., tekhnicheskii redaktor.

[Endurance of materials for automobile engine sliding friction bearings] Vynoslivost' materialov dlia podshipnikov skol'zhenia avtomobil'nykh dvigatelei. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii i avtomobil'nyi institut. [Trudy], no.76) 1955 54 p. (MLRA 9:4)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Osipyan). 2. Chlen-korrespondent AN SSSR (for Briling).
(Bearings (Machinery)) (Automobiles--Engines)

RAMAYYA, K.S.,

RAMAYYA, K.S., doktor tekhnicheskikh nauk; SIL'S, R.Kh., inzhener;
 BEN-YAKIR, R.D., inzhener; KOZLOVSKIY, I.S., kandidat tekhnicheskikh
 nauk, zamestitel' otvetsvennogo redaktora; ZIL'BERBERG, Ya.G.,
 inzhener, sekretar'; BRILING, N.R., professor, doktor tekhnicheskikh
 nauk; KALISH, G.G., professor, doktor tekhnicheskikh nauk; PEVZNER,
 Ya.M., professor, doktor tekhnicheskikh nauk; KHRUSHCHEV, M.M.,
 professor, doktor tekhnicheskikh nauk; LIPGART, A.A.; professor;
 PRIYADILOV, V.I., kandidat tekhnicheskikh nauk; ROZANOV, V.S., kandi-
 dat tekhnicheskikh nauk; CHISTOVONOV, S.B., inzhener; BROKSH, V.V.,
 zaveduyushchiy redaksiyey, inzhener; UVAROVA, A.F., tekhnicheskij
 redaktor; OSIPIYAN, A.F., kandidat tekhnicheskikh nauk, otvetstvennyy
 redaktor.

[Method of determining the potential corrosion properties of lubri-
 cants] Metod opredeleniya potentsial'noi korrozionnosti masel. Mo-
 skva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry.1956 49 p.
 (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi
 i avtomotornyi institut. [Trudy], no. 80) (MLRA 10:1)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for
 Osipyan). 2. Zamestitel' direktora Nauchno-issledovatel'skogo
 avtomotornogo instituta po nauchnoy rabote (for Kozlovskiy). 3. Chlen-
 korrespondent Akademii nauk SSSR (for Briling).

(Lubrication and lubricants) (Corrosion and anticorrosives)

PEVZNER, Ya.M., doktor tekhnicheskikh nauk.

Equalizing suspension for automobiles. Avt. i trakt. prom. no.3:
11-17 Mr '56. (MIRA 9:7)

1.Nauchno-issledovatel'skiy avtomotornyy institut.
(Automobiles--Wheels)

~~PEVZNER~~, Ya.M., doktor tekhnicheskikh nauk.

Automobile suspensions with correcting springs. Avt.1 trakt.prom.
no.12:22-25 D '56. (MIRA 10:2)

1. Nauchno-issledovatel'skiy avtomobil'nyy institut.
(Automobiles---Springs)

1280-200, 4A 41.

AUTHOR: Guelitzer, R.L.

NAV/12-100-4-11/2

TITLE: An All-Union Research and Technical Meeting on Car Suspensions (Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po podveskam avtomobiley)

PERIODICAL: Kauchuk i Rezina, 1969, Nr 4, p 54 (USSR)

ABSTRACT: The meeting was held from 16th to 19th February, 1969 at the Nauchno-Issledovatel'skiy avtomobil'nyy i avtomotornyy Institut (Research Institute for Automobiles and Buses, NAMI). Representatives of car factories, research institutes and members of teaching institutes heard 24 lectures and reviews. The chief lecturer of NAMI, A.A. Il'inskiy, reviewed in general the state of car suspensions, and many papers dealt with rubber-pneumatic suspensions. A.M. Gorelik (NAMI) discussed pneumatic rubber-cord suspensions, drawing attention to their advantages, and also spoke of their use abroad. B.A. Azgulyan (IAZ) referred to their adoption in public transport e.g. in

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the bus IAZ-695E. V.A. Galashin (MVTU) reviewed the work on rubber-cord diaphragms for car suspensions, which has been carried out in the Leningrad Tyre Factory, and the work of MVTU in. Bauman. Further lectures were read by R.L. Guelitzer (NIISHP), M.G. Pukhilovskiy (GAZ), V.B. Tsibolin etc. which dealt with experimental work on car suspension, their efficiency under various conditions etc. R.V. Rotenberg's discussion on the use of computers for engineering calculations was of outstanding interest. Ya. M. Pavlov discussed the road-holding properties of cars.

Card 2/2

VIL'PERT, K.I.; PEVZNER, Y4.M., doktor tekhn.nauk; TIKHONOV, A.A., kandid. tekhn. nauk; YULIN, B.V.

Some problems in the statistical analysis of vibrations of a motor vehicle. Avt.prom. 31 no.4:26-29 Apr '65.

1. Tsentral'nyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.

KISELEV, B.A., inzh.; LIPGART, A.A., otv.red.; PASHIN, M.A., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.; BRYZGOV, N.N., red.; DYMOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.; LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.; SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; CHAPKEVICH, V.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.; SMIRNOVA, G.V., tekhn.red.

[Investigation of the operation and gas-exchange of a loop-scavenged two-cycle motor-vehicle diesel engine] Issledovanie rabochego protsessa i gazoobmena dyukhtaktnogo avtomobilnogo dizelia s petlevoi produkoi. Moskva, Mashgiz, 1961. 193 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. Trudy, no.30). (MIRA 16:8)
(Motor vehicles--Engines)

1 19711-65 EWT(d)/EWP(h)/EWP(1) ASD(a)-5/AFETR/RAEM(a)/ESD(c)/ESD(dp)/ESD(gs)/ESD(t)
ACCESSION NR: AP4049806 S/0113/64/000/001/0015/0018

AUTHORS: Pevzner, Ya. M. (Doctor of technical sciences); Tikhonov, A. A. (Candidate of technical sciences)

TITLE: Investigation of the statistical properties of the microprofile of basic types of automobile roads

SOURCE: Avtomobil'naya promyshlennost', no. 1, 1964, 15-18

TOPIC TAGS: transportation, traffic, correlation statistics

14
ABSTRACT: Laboratory experiments were conducted to measure the microprofile of common basic types of roads for automotive traffic. Various types of surfaces were tested, including cobblestones of satisfactory quality, cobblestones with chuckholes and mounds, asphalt, and concrete. The aim of the tests was to evaluate the variation of the statistical characteristics of microprofiles for use in calculating automobile vibrations. A stretch of road of constant general classification was treated as being represented by a stationary random function. Measurements were made on stretches of road 110 m long for cobblestones and 220 m long for asphalt and cement concrete. At 10 cm (rough cobblestones), 20 cm (satisfactory cobblestones), or 50 cm (asphalt or concrete pavement) intervals, elevations

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ACCESSION NR: AP4049806

of the surface were taken with standard leveling equipment. All measurements were made in the morning hours from one instrument location. Where possible, the measuring rod was placed along the most travelled part of the road. Roads were selected from several Soviet oblasts. In all, 5800 meters of roadway were measured, and their characteristics are shown in a table. Normalized correlation functions were plotted and calculated for each case. An empirical correlation function $\rho(l) = A_1 e^{-\alpha_1 l} + A_2 e^{-\alpha_2 l} \cos \beta_1 l$ was found to describe satisfactorily the general case, where $\rho(l)$ is the normalized microprofile correlation function, $A_1 + A_2 = 1$, α_1 and α_2 are characteristic damping functions, and β_1 is a vibration coefficient. Periodicity considerations led to derivation of spectral density functions relating vibration to automobile speed. Each road type was described by a density function through analysis of its microprofile data. Orig. art. has: 4 tables, 5 figures, and 9 equations.

ASSOCIATION: NAMI

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SOV: 001

OTHER: 000

Card 2/2

PEVZNER, Ya.M., doktor tekhn.nauk; TIKHONOV, A.A., kand.tekhn.nauk

Investigating statistical characteristics of the microprofile
of basic types of highways. Avt.prom. 30 no.1:15-18 Ja '64.
(MIRA 1'')

1. Nauchno-issledovatel'skiy avtomobil'nyy i avtomotorny
institut.

PEVZNER, Ya.M.; GORELIK, A.M.; GOL'D, B.V., doktor tekhn.nauk,
tetsenzent; GOL'FGAT, D.B., kand. tekhn. nauk, red.;
NAKHIMSON, V.A., red.isd-va; EL'KIND, V.D., tekhn. red.

[Air and hydropneumatic suspensions] Pnevmaticheskie i
gidropnevmaticheskie podveski. Moskva, Mashgiz, 1963.
318 p. (MIRA 16:8)

(Motor vehicles--Springs)

PEVZNER, Ya.M., doktor tekhn.nauk

Calculating characteristics of pneumatic flexible elements with counterpressure. Avt.prom. 28 no.12:14-20 D '62. (MIRA 16:1)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motor vehicles--Springs)

GORELIK, A.M., kand.tekhn.nauk; PEVZNER, Ya.M., doktor tekhn.nauk

Pneumatic flexible elements made of rubberized cord. Avt.prom.
28 no.11:21-29 N '62. (MIRA 16:1)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motor vehicles--Pneumatic equipment)

GORELIK, A.M., kand.tekhn.nauk; PEVZNER, Ya.M., doktor tekhn.nauk

Automatic regulators of the position of a body with pneumatic suspension. Avt.prom. 28 no.10:16-21 0 '62. (MIRA 15:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles--Equipment and supplies)

PETRUSHOV, V.A., inzh.; PASHIN, M.A., red.; LIPGART, A.A., otv.red.;
 AL'PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;
 DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.;
 LUNEV, I.S., red.; NAGAYEV, P.V., red.; PELVNER, Ya.M., red.;
 PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;
 SEDOVA, Ye.V., red.; TAMBUCHI, O.V., red.; KHANIN, N.S., red.;
 CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV,
 E.M., red.; YEGORKINA, L.I., red.izd-va; GORDEYEV, L.P., tekhn.
 red.

[Operational analysis of the multiplate friction transformer]
 analiz raboty mnogodiskovykh friktsionnykh transformatorov.
 Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,
 1960. 79 p.(Moscow, Gosudarstvennyi nauchno-issledovatel'ski
 avtomobil'nyi i avtomotorny institut [Trudy], no.90).

(MIRA 13:8)

(Motor vehicles--Transmission devices)

SKOTNIKOV, Viktor Vasil'yevich; VEDENYAPIN, G.A.,red.; LIPGART, A.A., otv. red.;
BORISOV, S.G.,red.; BRISKIN, M.I.,red.; DYBOV, O.V.,red.; ZIL'BERG, Ya.
G.,red.; KOZLOVSKIY, I.S.,red.; LOZAR', A.S.,red.; LUNEV, I.S., red.;
PEVZNER, Ya.M.,red.; PRYADILOV, V.I.,red.; RAMAYYA, K.S.,red.;
SAMOL', G.I.,red.; SEDOVA, Ye.V.,red.; KHANIN, N.S.,red.; CHAPAYEV,
A.A.,red.; CHISTOZVONOV, S.B.,red.; SHKOL'NIKOV, E.M.,red.;
YEGORKINA, L.I.,red.izd-va; SMIRNOVA, G.V.,tekh.n.red.

[Intermediate transformation and temper brittleness of auto-
mobile body steels] Promezhutochnoe prevrashchenie i otpusknaya
khrupkost' v konstruktsionnykh avtomobil'nykh staliakh. Moskva,
Gos.nauchno-tekh. izd-vo mashinostroit. lit-ry 1958. 74 p.
(Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avto-
motornyi institut Trudy, no.85) (MIRA 12:2)
(Steel, Automobile--Metallography)

ROTENBERG, Robert Vladimirovich; PEVZNER, Ya. M., doktor tekhn. nauk,
retsensent; SOBOLEV, O. K., inzh., red.; IVENSKAYA, N. D.,
red. izd-va; SOKOLOVA, T. P., tekhn. red.

[Automobile suspension and vibration] Podveska avtomobilia
i ego kolebaniia. Izd. 2., perer. i dop. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1960. 354 p.

(Automobiles--Springs)

(MIRA 13:11)

CAPEK, Vlastimil; PFLUG, Josef

On a technic for aortography with selective angiography of the aortic branch by means of the percutaneous introduction of the catheter. Cesk. rentg. 14 no.3:189-197 Je '60.

1. Klinická základna rentgenologické katedry (predseda MUDr. Josef Slanina) a chirurgické katedry (predseda prof. MUDr. Jan Knobloch, Dr. Sc. UDI, Praha 8-Bulovka.
(ANGIOGRAPHY)

RUDNITSKIY, N.M., kand. tekhn. nauk; VEDENYAPIN, G.A., otv.red.; KOZLOVSKIY, I.S.,
kand.tekhn.nauk, red.; ZIL'BERBERG, Ya.G., inzh. zamestitel' otv.red.
BRILING, N.R., doktor tekhn.nauk, prof., red.; KALISH, G.G., doktor
tekhn.nauk, prof., red.; PEVZNER, YA.M., doktor tekhn.nauk, prof.,
red.; KHRUSHCHEV, M.M.; doktor tekhn.nauk, prof., red. RAMAYVA, K.S.,
doktor tekhn.nauk, red.; LIPGART, A.A., prof., red.; PHYADILOV, V.I.,
kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn nauk, red.;
CHISTOZVONOV, S.B., inzh., red.; AVAKIMOV, G.G., red.izd-va;
SHIKIN, S.T., tekhn. red.

[Investigating the durability of crankshafts in IAAZ diesel engines]
Issledovanie vynoslivosti kolenchatykh valov dizelei IAAZ Moskva,
Gos. nauchn.-tekhn. izd-vo Mashinostroitel'noi lit-ry, 1957. 30 p.
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i
avtomotornyi institut [Trudy], no.8a]. (MIRA 11:4)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo
Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo
instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy
chasti Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta
(for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling).
(Crankshafts and crankshafts) (Diesel engine)

ZIMELEV, Georgiy Vladimirovich, prof.; PEVZNER, Ya.M., prof., retsenzent;
CHAMOV, A.N., red.; NAKHIMSON, V.A., red.izd-va; UVAROVA, A.P.,
tekhn.red.; CHERNOVA, Z.I., tekhn.red.

[Theory of the automobile] Teoriia avtomobilia. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 312 p.
(MIRA 12:5)

(Automobile engineering)

PERVIZOV, Ya. M.

TRAKTOVENKO, I.A., kand. tekhn. nauk; VEDENYAPIN, G.A., otv. red.; KOZLOVSKIY, I.S., kand. tekhn. nauk, red.; ZIL'BERBERG, Ya.G. inzh. zamestitel' otv. red.; BRILING, N.B., doktor tekhn. nauk, prof., red.; KALISH, G.G., doktor tekhn. nauk, prof., red.; ~~PERVIZOV, Ya. M.~~, doktor tekhn. nauk, prof., red.; KHRUSHCHEV, M.M., doktor tekhn. nauk, prof., red.; RAMAYYA, K.S., doktor tekhn. nauk, red.; LIPGART, A.A., prof., red.; PRYADILOV, V.I., kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn. nauk, red.; CHISTOZVONOV, S.B., inzh., red.; SHIKIN, S.T., tekhn. red.

[Investigating the effect of the cetane number of diesel fuels on the performance of engines] Issledovanie vliyania tsetanovogo chisla topliva na rabotu dvigatelya. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1957. 30 p. (Moscow, Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. [Trudy], no.83). (MIRA 10:12)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy rabote Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling).
(Diesel fuel) (Diesel engine)

CHAPKEVICH, V.A., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, V.A.G., inzhener, redaktor; BRILING, N.B., professor, doktor tekhnicheskikh nauk, redaktor; KALISH, G.G., professor, doktor tekhnicheskikh nauk, redaktor; PEVZNER, Ya.M., professor, doktor tekhnicheskikh nauk, redaktor; KHRUSHCHOV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor.

[Investigation of the operation of the IaAZ engine] Issledovanie rabochego protsessa dvigatelya IaAZ. Moskva, Gos.nauchno-tekhn. izd-vo mashino-stroitel'stva, 1956. 41 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtemotorny institut. [Trudy], no.79) (MIRA 10:3)

1. Direktor Nauchno-issledovatel'skogo avtomobil'nogo instituta (for Osipyan)
2. Zamestitel direktora Nauchno-issledovatel'skogo avtomobil'nogo instituta po nauchnoy rabote (for Kozlovskiy)
3. Chlen-korrespondent AN SSSR (for Briling).
(Automobiles--Engines)

113-58-3-4,10

AUTHORS: Briskin, M.I.; Gel'fgat, D.V., Candidate of Technical Sciences; Pevzner, Ya.M., Doctor of Technical Sciences; Tikhonov, A.A.

TITLE: Dynamic Stress in Truck Bodies (Dinamicheskiye nagruzki v kuzovakh gruzovykh avtomobiley)

PERIODICAL: Avtomobil'naya Promyshlennost', 1958, Nr 3, pp 12-14 (USSR)

ABSTRACT: At the present time, trucks are fitted with special apparatuses which are often sensitive to shocks, etc. The transporting of fragile freight also makes protection against shocks necessary. Experiments were made, therefore, to measure accelerations in the trucks ZIL-151 and GAZ-63 acting in vertical and horizontal directions. For this purpose an optical accelerograph type NAMI was used (Figure 1). A beam of light was directed on a mirror which transduces the movement of the chassis and causes oscillations of the beam. These oscillations were registered by a film camera. The speed of the film was 18 mm/sec. The transducer of the apparatus is represented in Figure 3. The two truck types were loaded with 10 and 50% of their nominal capacity. The roads

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Dynamic Stress in Truck Chassis

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on which the tests took place were of two types: cobblestone and country dirt roads. The speed was 30 km/h. Measurements were made on sections of 200 m. The oscillations arising in the chassis are represented in Table 1. Higher oscillation frequencies, from 400 to 600 oscillations per minute, were caused by the hardness of the tires, etc. Still higher frequencies, from 1,400 to 2,200 oscillations per minute, were caused by the vibrations engine. Vertical accelerations of the chassis bottom of the truck ZIL-151 are represented in Table 2 (cobblestone roads), and Table 3 (country dirt roads). The tables show that in some cases the accelerations reached 50 m/sec². More frequent were accelerations of 30-35 m/sec². In the back part of the chassis the accelerations were higher than in the front part. Table 4 represents the values for the truck GAZ-63, loaded with 10% of its nominal load and moving at 20 km/h. The measured values reached 45-48 m/sec² at times. Accelerations of 30-35 m/sec² were more frequent. Longitudinal accelerations in the truck ZIL-151 are shown in Table 5, and in the truck GAZ-63 in Table 6. These accelerations sometimes exceeded 50 m/sec². Dynamic stresses were reduced by rubber shock absorbers. Their application to a

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Dynamic Stress in Truck Bodies

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box of 100 kg decreased the accelerations to 25-30 m/sec².
The greatest dynamical stresses arised in loose loads in
these cases the accelerations of the freight reached values
of 40 g (1 g = 9.8 m/sec²).
There are 5 figures, and 6 tables.

ASSOCIATION: NAMI

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Card 3/3 1. Cargo vehicles-Test methods

SHEOL'NIKOV, B.M., kand.tekhn.nauk; LEVITAN, M.M., inzh.; OSIPYAN, A.V.,
kand.tekhn.nauk, red.; KOZLOVSKIY, I.S., kand.tekhn.nauk, zamestitel'
otvetstvennogo red.; BRILING, N.R., doktor tekhn.nauk, prof., red.;
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doktor tekhn.nauk, prof., red.; CHISTOZVONOV, S.B., inzh., red.;
ZIL'BERBERG, Ya.G., inzh., red.; YEGORKINA, L.I., red.izd-va;
UVAROVA, A.F., tekhn.red.

[Using chromium-silicon alloys in manufacturing automobile engine
sleeves] Khromokremnistyi splav dlia gil'z avtomobil'nykh dvigatelei.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 78 p.
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i
avtomotorny institut. Trudy no.81)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo
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korrespondent AN SSSR (for Briling).

(Chromium-silicon alloys) (Automobiles--Engines--Cylinders)

PEVZNER, Ye.M., inzh.

Transient processes in electric current transformers. Elektrichestvo
no.1:61-66 Ja '61. (MIRA 14:4)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Electric transformers)

PEVZNER, Ye.M., inzhener

Switching an unloaded transformer on a sinusoidal voltage. Izv.
vys.ucheb.zav.; prib. 2 no.5:46-53 '59. (MIRA 13:5)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
Rekomendovana kafedroy teoreticheskikh osnov elektrotekhniki.
(Electric transformers)

B/196/63/000/003/002/012
A052/A126

AUTHOR: Pevsner, Ye.M.

TITLE: On the problem of investigating a-c transient processes in electric circuits with steel

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no. 3, 1963, 23, abstract 3A153. (Tr. Tashkentsk. politekhn. in-ta, no. 20, 1961, 29 - 52)

TEXT: The paper considers the problems of determining transient processes in electric circuits with iron which are reduced to the solution of a non-linear differential equation of the form $y' + Q_0 F(y) = Q_1 f(\tau)$, where $F(y)$ is the function approximating the magnetization curve, $f(\tau)$ is the applied action depending on time, and Q, ϵ are constant parameters. The possibility is established of calculating AG processes by an approximation of the magnetization curve through an exponential function independent of the sign of induction. At such an approximation one branch of the magnetization curve corresponding to instance-to-positive inductions can be described with sufficient accuracy whereas the other branch of the curve in

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the range of negative values is described approximately. The difference between the true and approximate curve in the negative range affects the accuracy of the solution of the equation in the positive range. When establishing by an exponential function the criterion of the applicability of the approximation the author proceeds at first from the approximation of the magnetization curve in the form $P(y) = \alpha \operatorname{sh}(y/B)$. Representing $P(y)$ as $P(y) = [\exp(y) - 1] - [\exp(-y) - 1]$ it is shown that the condition permitting to neglect the last member is the inequality

$$Z_0 = M \exp(-\psi) \gg \sum_{n=0}^{\infty} \gamma_n,$$

where Z_0 is the solution of the differential equation without this member

and $\sum_{n=0}^{\infty} \gamma_n$ is for the errors connected with the neglect of this member. On the condition of the boundedness of Z_0 function this criterion is reduced to $Q\epsilon\tau \ll 1$. It is pointed out that the criterion is fulfilled almost in all problems of determining a transient process owing to the smallness of the coefficient contained in the value ϵ , as well as in steady processes at

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limited τ values. The method is illustrated by the determination of a transient process in the current transformer (neglecting hysteresis, core losses as well as load inductance). The solution is received in analytical form and its deviation from the experiment does not exceed 20% for the maximum magnetizing current value. There is 1 figure. See also RZhE, no. 4, 1960, 1.812.

M. Zarudi

[Abstracter's note: Complete translation.]

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OSIPOV, Yu.M., inzh.; PEVZNER, Ye.M., inzh.; PRYANISHNIKOV, V.N.,
inzh.; PUNTOV, ~~N.N., inzh.~~

Impulse-type lighting system. Svetotekhnika 9 no.6:28-29
Je '63. (MIRA 16:6)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Electric lighting)
(Photography—Electric equipment)

FUNTOV, N.M., dots.; PEVZNER, Ye.M.;

[Study of the properties of single-phase and three-phase sine wave current; laboratory manual] Issledovanie svoistv odnofaznykh i trekhfaznykh tsepei simoidal'nogo toka; rukovodstvo dlia laboratornykh rabot. Leningrad, 1962. 51 p. (MIRA 17:5)

1. Leningrad. Leningradskiy institut tochnoy mekhaniki i optiki. Kafedra teoreticheskikh osnov elektrotekhniki.